

Clean Copy of the Current Claims as Amended

Claims 1 – 3 (Canceled)

Claim 4. (Currently amended) A system for work piece milling on woodworking tools having a cutting portion, the woodworking tools chosen from the group consisting of a wood shaper, a router table and a table saw, the woodworking tool allowing work piece movement on the woodworking tool through the cutting portion in a first direction, the system comprising:

- a. an indexing system comprising:
 - 1) an indexing channel system including at least one channel having an elongated slot, the channel having a channel stop securable at one end of the elongated slot, the channel being attachable to the woodworking tool so that the channel is secured to the woodworking tool approximately perpendicular to the direction of work piece movement through the cutting portion on the woodworking tool;
 - 2) at least one indexing spacer of predetermined length that fits within and is retained in the elongated slot of the channel; and
- b. a horizontal member attachable to the indexing system through at least one adjustable connection, the connection having a connection member extending into the elongated slot of the channel, the connection member interacting with the elongated slot to secure the horizontal member to the channel in a spaced relationship from the channel stop, the spaced relationship determined by the length of the indexing spacer;

whereby, once the indexing channel system is secured to the woodworking tool and the channel stop securely located at the one end of the elongated slot, the horizontal member is moved toward the cutting portion until the connection member contacts the indexing spacer so that the horizontal member is positioned a distance from the cutting portion of the woodworking tool in a precisely determined distance from the cutting portion of the woodworking tool, the distance determined by the length of the indexing spacer.

Claims 5 – 10 (Canceled)

Claim 11. (Currently amended) The system of claim 4 further comprising a bracket interlocking the system to a fence system.

Claim 12. (Canceled)

Claim 13. (Currently amended) The system of claim 4 wherein: the channel of the indexing channel system is an extruded piece; the elongated slot is formed in cross-section in an upright or inverted T shape; and the connection includes anchoring means interacting with the elongated slot for securing the horizontal member to the indexing channel system.

Claim 14. (Currently amended) The system of claim 4 wherein the indexing spacer of predetermined length is chosen from a group consisting of indexing spacers having a preset length or an adjustable length.

Claim 15 (Canceled)

Claim 16. (Currently amended) The system of claim 14 wherein the indexing spacer of predetermined length comprises a body having a threaded hole and an opposed end and a hex bolt having a head, the hex bolt having threads that are threaded into the threaded hole of the body whereby the distance from the opposed end of the body and the head of the hex bolt, and consequently the length of the spacer, is determined by rotating the hex bolt into or out of the threaded hole of the body.

Claim 17. (Currently amended) The system of claim 14 wherein the indexing spacer of predetermined length comprises:

at least two finger gauges aligned side by side, each finger gauge having a hole extending entirely through the finger gauge transverse to the side by side alignment;
a connecting bolt extending through the holes in the finger gauges, the connecting bolt holding the gauges in side by side alignment.

Claim 18. (Currently amended) The system of claim 14 wherein the indexing spacer of predetermined length comprises:

at least three relatively thick finger gauges aligned side by side, each relatively thick finger gauge having a hole extending entirely through the finger gauge transverse to the side by side alignment;

at least three relatively thin finger gauges aligned side by side, each relatively thin finger gauge having a hole extending entirely through the finger gauge transverse to the side by side alignment;

a first connecting bolt extending through the holes in the finger gauges, the first connecting bolt holding the gauges in side by side alignment.

Claim 19. (Currently amended) The system of claim 18 wherein each of the at least three relatively thin finger gauges are each one third the thickness of one of the relatively thick finger gauges.

Claim 20. (Currently amended) The system of claim 18 further comprising:

a second connecting bolt;
a pair of plates located on opposed sides of the finger gauges, the pair of plates attached to and pivoting about the first connecting bolt, the pair of plates having holes at one end to allow the second connecting bolt to pass therethrough; and

a block located between the pair of plates at one end of the finger gauges, the block having a hole extending entirely through the block, the hole in the block holding the second connecting bolt whereby the block pivots about the second connecting bolt.

Claim 21. (Currently amended) A system for work piece milling on woodworking tools having a cutting portion, the woodworking tools chosen from the group consisting of a wood shaper, a router table and a table saw, the woodworking tool allowing work piece movement on the woodworking tool through the cutting portion in a first direction, the system comprising:

a. an indexing system comprising:

1) an indexing channel system including at least one channel having an elongated slot, the channel having a channel stop securable at one end of the elongated slot, the channel being attachable to the woodworking tool so that the channel is secured to the woodworking tool approximately perpendicular to the direction of work piece movement through the cutting portion on the woodworking tool wherein: and

the channel of the indexing channel system is an extruded piece;

the elongated slot is formed in cross-section in an upright or inverted T shape;

2) at least one indexing spacer of predetermined length that fits within and is retained in the elongated slot of the channel wherein the indexing spacer of predetermined length may either have a preset length or an adjustable length; and

b. a horizontal member attachable to the indexing system through at least one adjustable connection, the connection having a connection member extending into the elongated slot of the channel, the connection member interacting with the elongated slot to secure the horizontal member to the channel in a spaced relationship from the channel stop, the spaced relationship determined by the length of the indexing spacer;

whereby, once the indexing channel system is secured to the woodworking tool and the channel stop securely located at the one end of the elongated slot, the horizontal member is moved toward the cutting portion until the connection member contacts the indexing spacer so that the horizontal member is positioned a distance from the cutting portion of the woodworking tool in a precisely determined distance from the cutting portion of the woodworking tool, the distance determined by the length of the indexing spacer.

Claim 22. (Currently amended) The system of claim 21 further comprising a bracket interlocking the system to a fence system.

Claim 23. (Currently amended) The system of claim 21 wherein the indexing spacer of predetermined length comprises a body having a threaded hole and an opposed end and a hex bolt having a head, the hex bolt having threads that are threaded into the threaded hole of the body whereby the distance from the opposed end of the body and the head of the hex bolt, and consequently the length of the indexing spacer, is determined by rotating the hex bolt into or out of the threaded hole of the body.

Claim 24. (Currently amended) The system of claim 21 wherein the indexing spacer of predetermined length comprises:

at least two finger gauges aligned side by side, each finger gauge having a hole extending entirely through the finger gauge transverse to the side by side alignment;

a connecting bolt extending through the holes in the finger gauges, the connecting bolt holding the gauges in side by side alignment.

Claim 25. (Currently amended) The system of claim 21 wherein the indexing spacer of predetermined length comprises:

at least three relatively thick finger gauges aligned side by side, each relatively thick finger gauge having a hole extending entirely through the finger gauge transverse to the side by side alignment;

at least three relatively thin finger gauges aligned side by side, each relatively thin finger gauge having a hole extending entirely through the finger gauge transverse to the side by side alignment;

a first connecting bolt extending through the holes in the finger gauges, the first connecting bolt holding the gauges in side by side alignment.

Claim 26. (Currently amended) The system of claim 25 wherein each of the at least three relatively thin finger gauges are each one third the thickness of one of the relatively thick finger gauges.

Claim 27. (Currently amended) The system of claim 25 wherein the indexing spacer further comprises:

a second connecting bolt;

a pair of plates located on opposed sides of the finger gauges, the pair of plates attached to and pivoting about the first connecting bolt, the pair of plates having holes at one end to allow the second connecting bolt to pass therethrough; and

a block located between the pair of plates at one end of the finger gauges, the block having a hole extending entirely through the block, the hole in the block holding the second connecting bolt whereby the block pivots about the second connecting bolt.